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NN      NN  MM      MM      AAAAAA  LL      IIIIII  BBBB BBBB  RRRRRRRR  YY      YY
NN      NN  MM      MM      AAAAAA  LL      IIIIII  BBBB BBBB  RRRRRRRR  YY      YY
NN      NN  MMMM  MMMM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NN      NN  MMMM  MMMM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NNNN    NN  MM      MM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NNNN    NN  MM      MM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NN  NN  NN  MM      MM  AA      AA  LL      II      BBBB BBBB  RRRRRRRR  YY      YY
NN  NN  NN  MM      MM  AA      AA  LL      II      BBBB BBBB  RRRRRRRR  YY      YY
NN      NNNN  MM      MM  AAAAAAAAAA  LL      II      BB      BB  RR      RR  YY      YY
NN      NNNN  MM      MM  AAAAAAAAAA  LL      II      BB      BB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LL      II      BB      BB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LL      IIIIII  BBBB BBBB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LL      IIIIII  BBBB BBBB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LLLLLLLLLL  IIIIII  BBBB BBBB  RR      RR  YY      YY
NN      NN  MM      MM  AA      AA  LLLLLLLLLL  IIIIII  BBBB BBBB  RR      RR  YY      YY

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

```

Version: 'V04-000'

```
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++

NMAHEAD.B32

Define \$EQLST macro to make library from the NMALIBRY.B32 file

This source is taken from the following source:

--

++

UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING  
OF STARLET DEFINITION MACROS.

--

MACRO TO GENERATE EQLST CONSTRUCTS.

MACRO

```
$EQLST(P,G,I,S)[A]=
  XNAME(P,GET1ST_A) =
    XIF NUL2ND_A
    XTHEN (I) + XCOUNT*(S) ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM
    XELSE GET2ND_A
    XFI X,
```

GET1ST\_(A,B)=

A-X,

GET2ND\_(A,B)=

B-X,

! KNOWN NON-NULL

C 7  
15-Sep-1984 23:06:17  
15-Sep-1984 22:48:08

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[NCP.SRC]NMAHEAD.B32;1

Page 2  
(1)

.. M 0058 0  
.. 0059 00  
.. 0060 00  
.. 0061 00  
.. 0062 00  
.. 0063 0

NUL2ND (A,B)=  
%NULL(B) %;

End of NMAHEAD



```
0064 0 | *****
0065 0 | Created 15-SEP-1984 22:48:46 by VAX-11 SDL V2.0 Source: 15-SEP-1984 22:47:35 _S255SDUA28:[NCP.SRC]NMADEF.
0066 0 | *****
0067 0 |
0068 0 |
0069 0 | *** MODULE $NMADEF ***
0070 0 |
0071 0 | Object type
0072 0 |
0073 0 | literal NMASC_OBJ_NIC = 19; | Nice listener
0074 0 |
0075 0 | Function codes
0076 0 |
0077 0 | literal NMASC_FNC_LOA = 15; | Request down-line load
0078 0 | literal NMASC_FNC_DUM = 16; | Request up-line dump
0079 0 | literal NMASC_FNC_TRI = 17; | Trigger bootstrap
0080 0 | literal NMASC_FNC_TES = 18; | Test
0081 0 | literal NMASC_FNC_CHA = 19; | Change parameter
0082 0 | literal NMASC_FNC_REA = 20; | Read information
0083 0 | literal NMASC_FNC_ZER = 21; | Zero counters
0084 0 | literal NMASC_FNC_SYS = 22; | System-specific function
0085 0 |
0086 0 | Option byte
0087 0 |
0088 0 | common to change parameter, read information and zero counters
0089 0 |
0090 0 | literal NMASM_OPT_ENT = 7;
0091 0 | literal NMASM_OPT_CLE = 64;
0092 0 | literal NMASM_OPT_PER = 128;
0093 0 | literal NMASM_OPT_INF = 112;
0094 0 | literal NMASC_OPINF_SUM = 0; | Summary
0095 0 | literal NMASC_OPINF_STA = 1; | Status
0096 0 | literal NMASC_OPINF_CHA = 2; | Characteristics
0097 0 | literal NMASC_OPINF_COU = 3; | Counters
0098 0 | literal NMASC_OPINF_EVE = 4; | Events
0099 0 |
0100 0 | test
0101 0 |
0102 0 | literal NMASM_OPT_ACC = 128;
0103 0 | literal NMASM_OPT_REA = 128;
0104 0 | literal NMASC_SYS_RST = 1; | Rsts
0105 0 | literal NMASC_SYS_RSX = 2; | Rsx family
0106 0 | literal NMASC_SYS_TOP = 3; | Tops-20
0107 0 | literal NMASC_SYS_VMS = 4; | Vms
0108 0 | literal NMASC_SYS_RT = 5; | RT-11
0109 0 |
0110 0 | Entity types. This numbering scheme must be used in non-system-specific
0111 0 | NICE messages. (See below for conflicting system-specific entities).
0112 0 |
0113 0 | literal NMASC_ENT_NOD = 0; | Node
0114 0 | literal NMASC_ENT_LIN = 1; | Line
0115 0 | literal NMASC_ENT_LOG = 2; | Logging
0116 0 | literal NMASC_ENT_CIR = 3; | Circuit
0117 0 | literal NMASC_ENT_MOD = 4; | Module
0118 0 | literal NMASC_ENT_ARE = 5; | Area
0119 0 |
0120 0 | System-specific (function 22) entity types. This numbering scheme
```

```

0121 0      ! for objects must be used in any entity type in system-specific NICE
0122 0      ! messages.
0123 0
0124 0      ! literal NMASC_SENT_ALI = 3;      ! Alias
0125 0      ! literal NMASC_SENT_OBJ = 4;      ! Object
0126 0      ! literal NMASC_SENT_PRO = 5;      ! Process
0127 0      ! literal NMASC_SENT_SYS = 6;      ! System
0128 0      ! literal NMASC_SENT_LNK = 7;      ! Links
0129 0      ! literal NMASC_SENT_EXE = 128;
0130 0      ! literal NMASC_SENT_ADJ = -4;      ! Adjacent
0131 0      ! literal NMASC_SENT_ACT = -2;      ! Active
0132 0      ! literal NMASC_SENT_KNO = -1;      ! Known
0133 0      ! literal NMASC_SENT_ADD = 0;      ! Node address
0134 0      ! literal NMASC_SENT_ALL = -3;      ! All
0135 0      ! literal NMASC_SENT_LOO = -3;      ! Loop
0136 0
0137 0      ! Logging sink types
0138 0
0139 0      ! literal NMASC_SNK_CON = 1;      ! Console
0140 0      ! literal NMASC_SNK_FIL = 2;      ! File
0141 0      ! literal NMASC_SNK_MON = 3;      ! Monitor
0142 0
0143 0      ! Counter data type values
0144 0
0145 0      ! literal NMASM_CNT_TYP = 4095;
0146 0      ! literal NMASM_CNT_MAP = 4096;
0147 0      ! literal NMASM_CNT_WID = 24576;
0148 0      ! literal NMASM_CNT_COU = 32768;
0149 0      ! literal NMASM_CNT_WIL = 8192;
0150 0      ! literal NMASM_CNT_WIH = 16384;
0151 0      ! literal NMASS_NMADEF = 2;
0152 0      ! macro NMA$V_OPT_ENT = 0,0,3,0 %;
0153 0      ! literal NMASS_OPT_ENT = 3;      ! Entity type
0154 0
0155 0      ! change parameter
0156 0
0157 0      ! macro NMA$V_OPT_CLE = 0,6,1,0 %;      ! Clear parameter
0158 0      ! macro NMA$V_OPT_PER = 0,7,1,0 %;      ! Permanent parameters
0159 0
0160 0      ! common to change parameter or read information
0161 0
0162 0      ! read information
0163 0
0164 0      ! macro NMA$V_OPT_INF = 0,4,3,0 %;
0165 0      ! literal NMASS_OPT_INF = 3;      ! Information type mask
0166 0      ! macro NMA$V_OPT_ACC = 0,7,1,0 %;      ! Access control included
0167 0
0168 0      ! zero
0169 0
0170 0      ! macro NMA$V_OPT_REA = 0,7,1,0 %;      ! Read and zero
0171 0
0172 0      ! System types
0173 0
0174 0      ! macro NMA$V_ENT_EXE = 0,7,1,0 %;      ! Executor indicator flag for response messages
0175 0
0176 0
0177 0      ! Entity identification format types

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0178 0 !
0179 0 macro NMA$V_CNT_TYP = 0,0,12,0 %;
0180 0 literal NMA$S_CNT_TYP = 12; ! Type mask
0181 0 macro NMA$V_CNT_MAP = 0,12,1,0 %; ! Bitmapped indicator
0182 0 macro NMA$V_CNT_WID = 0,13,2,0 %;
0183 0 literal NMA$S_CNT_WID = 2; ! Width field mask
0184 0 macro NMA$V_CNT_COU = 0,15,1,0 %; ! Counter indicator
0185 0 macro NMA$V_CNT_WIL = 0,13,1,0 %; ! Width field low bit
0186 0 macro NMA$V_CNT_WIH = 0,14,1,0 %; ! Width field high bit
0187 0
0188 0 ! Node area and address extraction
0189 0
0190 0 literal NMA$M_PTY_TYP = 32767;
0191 0 literal NMA$C_PTY_MAX = 15; ! Maximum fields within coded multiple
0192 0 literal NMA$M_PTY_CLE = 63;
0193 0 literal NMA$M_PTY_MUL = 64;
0194 0 literal NMA$M_PTY_COD = 128;
0195 0 literal NMA$M_PTY_CMU = 192;
0196 0 literal NMA$M_PTY_NLE = 15;
0197 0 literal NMA$M_PTY_NTY = 48;
0198 0 literal NMA$M_PTY_ASC = 64;
0199 0 literal NMA$C_NTY_DU = 0; ! Unsigned decimal
0200 0 literal NMA$C_NTY_DS = 1; ! Signed decimal
0201 0 literal NMA$C_NTY_H = 2; ! Hexidecimal
0202 0 literal NMA$C_NTY_O = 3; ! Octal
0203 0 ! NLE values (length of number):
0204 0 literal NMA$C_NLE_IMAGE = 0; ! Image field (byte-counted)
0205 0 literal NMA$C_NLE_BYTE = 1; ! Byte
0206 0 literal NMA$C_NLE_WORD = 2; ! Word
0207 0 literal NMA$C_NLE_LONG = 4; ! Longword
0208 0 literal NMA$C_NLE_QUAD = 8; ! Quadword
0209 0
0210 0 ! Define standard values for the DATA TYPE byte
0211 0
0212 0 literal NMA$C_PTY_AI = 64; ! ASCII image (ASC=1)
0213 0 literal NMA$C_PTY_HI = 32; ! Hex image (NTY=H, NLE=IMAGE)
0214 0 literal NMA$C_PTY_H1 = 33; ! Hex byte (NTY=H, NLE=BYTE)
0215 0 literal NMA$C_PTY_H2 = 34; ! Hex word (NTY=H, NLE=WORD)
0216 0 literal NMA$C_PTY_H4 = 36; ! Hex byte (NTY=H, NLE=LONG)
0217 0 literal NMA$C_PTY_DU1 = 1; ! Decimal unsigned byte (NTY=DU, NLE=BYTE)
0218 0 literal NMA$C_PTY_DU2 = 2; ! Decimal unsigned word (NTY=DU, NLE=WORD)
0219 0 literal NMA$C_PTY_CD1 = 129; ! Coded decimal byte (COD=1, 1 byte)
0220 0 literal NMA$C_PTY_CM2 = 194; ! Coded multiple, 2 fields
0221 0 literal NMA$C_PTY_CM3 = 195; ! Coded multiple, 3 fields
0222 0 literal NMA$C_PTY_CM4 = 196; ! Coded multiple, 4 fields
0223 0 literal NMA$C_PTY_CM5 = 197; ! Coded multiple, 5 fields
0224 0
0225 0 ! Circuit parameters
0226 0
0227 0 literal NMA$C_PCCI_STA = 0; ! State (coded byte of NMA$C_STATE)
0228 0 literal NMA$C_PCCI_SUB = 1; ! Substate (coded byte of NMA$C_LINSS)
0229 0 literal NMA$C_PCCI_SER = 100; ! Service (coded byte of NMA$C_LINSV)
0230 0 literal NMA$C_PCCI_LCT = 110; ! Counter timer (word)
0231 0 literal NMA$C_PCCI_SPY = 120; ! Service physical address (NI address)
0232 0 literal NMA$C_PCCI_SSB = 121; ! Service substate (coded byte of NMA$C_LINSS)
0233 0 literal NMA$C_PCCI_CNO = 200; ! Connected node
0234 0 literal NMA$C_PCCI_COB = 201; ! Connected object

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0235 0 literal NMASC_PCCI_LOO = 400:      | Loopback name (ascii)
0236 0 literal NMASC_PCCI_ADJ = 800:      | Adjacent node
0237 0 literal NMASC_PCCI_DRT = 801:      | Designated router on NI
0238 0 literal NMASC_PCCI_BLO = 810:      | Block size (word)
0239 0 literal NMASC_PCCI_COS = 900:      | Cost (byte)
0240 0 literal NMASC_PCCI_MRT = 901:      | Maximum routers on NI (byte)
0241 0 literal NMASC_PCCI_RPR = 902:      | Router priority on NI (byte)
0242 0 literal NMASC_PCCI_HET = 906:      | Hello timer (word)
0243 0 literal NMASC_PCCI_LIT = 907:      | Listen timer (word)
0244 0 literal NMASC_PCCI_BLK = 910:      | Blocking (coded byte of NMASC_CIRBLK_)
0245 0 literal NMASC_PCCI_MRC = 920:      | Maximum recalls (byte)
0246 0 literal NMASC_PCCI_RCT = 921:      | Recall timer (word)
0247 0 literal NMASC_PCCI_NUM = 930:      | Number (ascii)
0248 0 literal NMASC_PCCI_USR = 1000:     | User entity identification
0249 0 literal NMASC_PCCI_POL = 1010:     | Polling state (coded byte of NMASC_CIRPST_)
0250 0 literal NMASC_PCCI_PLS = 1011:     | Polling substate (coded byte)
0251 0 literal NMASC_PCCI_OWN = 1100:     | Owner entity identification
0252 0 literal NMASC_PCCI_LIN = 1110:     | Line (ascii)
0253 0 literal NMASC_PCCI_USE = 1111:     | Usage (coded byte of NMASC_CIRUS_)
0254 0 literal NMASC_PCCI_TYP = 1112:     | Type (coded byte of NMASC_CIRTY_)
0255 0 literal NMASC_PCCI_DTE = 1120:     | DTE (ascii)
0256 0 literal NMASC_PCCI_CHN = 1121:     | Channel (word)
0257 0 literal NMASC_PCCI_MBL = 1122:     | Maximum data (word)
0258 0 literal NMASC_PCCI_MWI = 1123:     | Maximum window (byte)
0259 0 literal NMASC_PCCI_TRI = 1140:     | Tributary (byte)
0260 0 literal NMASC_PCCI_BBT = 1141:     | Babble timer (word)
0261 0 literal NMASC_PCCI_TRT = 1142:     | Transmit timer (word)
0262 0 literal NMASC_PCCI_RTT = 1143:     | Retransmit timer (word)
0263 0 literal NMASC_PCCI_MRB = 1145:     | Maximum receive buffers (coded byte)
0264 0      0-254 is value, 255 = UNLIMITED
0265 0 literal NMASC_PCCI_MTR = 1146:     | Maximum transmits (byte)
0266 0 literal NMASC_PCCI_ACB = 1150:     | Active base (byte)
0267 0 literal NMASC_PCCI_ACI = 1151:     | Active increment (byte)
0268 0 literal NMASC_PCCI_IAB = 1152:     | Inactive base (byte)
0269 0 literal NMASC_PCCI_IAI = 1153:     | Inactive increment (byte)
0270 0 literal NMASC_PCCI_IAT = 1154:     | Inactive threshold (byte)
0271 0 literal NMASC_PCCI_DYB = 1155:     | Dying base (byte)
0272 0 literal NMASC_PCCI_DYI = 1156:     | Dying increment (byte)
0273 0 literal NMASC_PCCI_DYT = 1157:     | Dying threshold (byte)
0274 0 literal NMASC_PCCI_DTH = 1158:     | Dead threshold (byte)
0275 0
0276 0      RSX-specific circuit parameters
0277 0
0278 0 literal NMASC_PCCI_RSX_MAC = 2320:   | Multipoint active ratio
0279 0 literal NMASC_PCCI_RSX_LOG = 2380:   | Logical name
0280 0 literal NMASC_PCCI_RSX_DLG = 2385:   | Designated name
0281 0 literal NMASC_PCCI_RSX_ACT = 2390:   | Actual name
0282 0
0283 0      VMS-specific circuit NICE parameters [2700 - 2799]
0284 0
0285 0 literal NMASC_PCCI_VER = 2700:        | Verification (coded byte of NMASC_CIRVE_)
0286 0 literal NMASC_PCCI_XPT = 2720:        | Transport type (coded byte of NMASC_CIRXPT_)
0287 0
0288 0      VMS-specific datalink only circuit parameters [2800 - 2899]
0289 0
0290 0      (these will never be used in NICE messages).
0291 0

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0292 0 literal NMASC_PCCI_MST = 2810;      ! Maintenance state
0293 0
0294 0      Server Base specific Circuit parameters
0295 0
0296 0 literal NMASC_PCCI_SRV_LOG = 3380;      ! Logical name
0297 0 literal NMASC_PCCI_SRV_DLG = 3385;      ! Designated name
0298 0 literal NMASC_PCCI_SRV_ACT = 3390;      ! Actual name
0299 0
0300 0      Line parameters
0301 0
0302 0 literal NMASC_PCLI_STA = 0;              ! State (coded byte of NMASC STATE )
0303 0 literal NMASC_PCLI_SUB = 1;              ! Substate (coded byte of NMASC LINSS )
0304 0 literal NMASC_PCLI_SER = 100;           ! Service (coded byte of NMASC_LINSV_)
0305 0 literal NMASC_PCLI_LCT = 110;           ! Counter timer (word)
0306 0 literal NMASC_PCLI_LOO = 400;           ! Loopback name (ascii) [V2 only]
0307 0 literal NMASC_PCLI_ADJ = 800;           ! Adjacent node [V2 only]
0308 0 literal NMASC_PCLI_BLO = 810;           ! Block size (word) [V2 only]
0309 0 literal NMASC_PCLI_COS = 900;           ! Cost (byte) [V2 only]
0310 0 literal NMASC_PCLI_DEV = 1100;          ! Device (ascii)
0311 0 literal NMASC_PCLI_BFN = 1105;          ! Receive buffers
0312 0 literal NMASC_PCLI_CON = 1110;          ! Controller (coded byte of NMASC_LINCN_)
0313 0 literal NMASC_PCLI_DUP = 1111;          ! Duplex (coded byte of NMASC DPX_)
0314 0 literal NMASC_PCLI_PRO = 1112;          ! Protocol (coded byte of NMASC LINPR_)
0315 0 literal NMASC_PCLI_LTY = 1112;          ! Type (coded byte of NMASC LINTY_) [V2 only]
0316 0 literal NMASC_PCLI_CLO = 1113;          ! Clock (coded byte of NMASC_LINCL_)
0317 0 literal NMASC_PCLI_STI = 1120;          ! Service timer (word)
0318 0 literal NMASC_PCLI_NTI = 1121;          ! Normal timer (word) [V2 only]
0319 0 literal NMASC_PCLI_RTI = 1121;          ! Retransmit timer (word)
0320 0 literal NMASC_PCLI_HTI = 1122;          ! Holdback timer (word)
0321 0 literal NMASC_PCLI_MBL = 1130;          ! Maximum block (word)
0322 0 literal NMASC_PCLI_MRT = 1131;          ! Maximum retransmits (byte)
0323 0 literal NMASC_PCLI_MWI = 1132;          ! Maximum window (byte)
0324 0 literal NMASC_PCLI_TRI = 1140;          ! Tributary (byte) [V2 only]
0325 0 literal NMASC_PCLI_SLT = 1150;          ! Scheduling timer (word)
0326 0 literal NMASC_PCLI_DDT = 1151;          ! Dead timer (word)
0327 0 literal NMASC_PCLI_DLT = 1152;          ! Delay timer (word)
0328 0 literal NMASC_PCLI_SRT = 1153;          ! Stream timer (word)
0329 0 literal NMASC_PCLI_HWA = 1160;          ! Hardware address (NI address)
0330 0
0331 0      RSX-specific line parameters
0332 0
0333 0 literal NMASC_PCLI_RSX_OWN = 2300;        ! Owner
0334 0 literal NMASC_PCLI_RSX_CCS = 2310;        ! Controller CSR
0335 0 literal NMASC_PCLI_RSX_UCS = 2311;        ! Unit CSR
0336 0 literal NMASC_PCLI_RSX_VEC = 2312;        ! Vector
0337 0 literal NMASC_PCLI_RSX_PRI = 2313;        ! Priority
0338 0 literal NMASC_PCLI_RSX_MDE = 2321;        ! Dead polling ratio
0339 0 literal NMASC_PCLI_RSX_LLO = 2330;        ! Location
0340 0      0, Firstfit
0341 0      1, Topdown
0342 0 literal NMASC_PCLI_RSX_LOG = 2380;        ! Logical name
0343 0 literal NMASC_PCLI_RSX_DLG = 2385;        ! Designated name
0344 0 literal NMASC_PCLI_RSX_ACT = 2390;        ! Actual name
0345 0
0346 0      VMS-specific line NICE parameters [2700 - 2799]
0347 0
0348 0 literal NMASC_PCLI_MCD = 2701;            ! Micro-code dump filespec (ascii)

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0349 0 literal NMASC_PCLI_XMD = 2710:      ! X.25 line mode (coded byte of NMASC_X25MD_)
0350 0 literal NMASC_PCLI_EPT = 2720:      ! Ethernet Protocol Type (hex word)
0351 0
0352 0 VMS-specific datalink only line parameters [2800 - 2899]
0353 0
0354 0 (these will never be used in NICE messages).
0355 0
0356 0 literal NMASC_PCLI_BUS = 2801:      ! Buffer size (word)
0357 0 literal NMASC_PCLI_NMS = 2810:      ! Number of DMP/DMF synch chars (word)
0358 0 literal NMASC_PCLI_PHA = 2820:      ! Physical NI address of UNA (hex string)
0359 0 literal NMASC_PCLI_DPA = 2821:      ! (same as HWA) ; Default UNA physical address (hex string)
0360 0 literal NMASC_PCLI_PTY = 2830:      ! Ethernet Protocol type (word)
0361 0 literal NMASC_PCLI_MCA = 2831:      ! UNA Multicast address list (special)
0362 0 (See NMASC_LINMC )
0363 0 literal NMASC_PCLI_ICP = 2839:      ! DELUA Internal Loopback mode
0364 0 (coded byte of NMASC_STATE_)
0365 0 literal NMASC_PCLI_PRM = 2840:      ! UNA Promiscuous mode (coded byte of NMASC_STATE_)
0366 0 literal NMASC_PCLI_MLT = 2841:      ! UNA Multicast address mode (coded byte of NMASC_STATE_)
0367 0 literal NMASC_PCLI_PAD = 2842:      ! UNA Padding mode (coded byte of NMASC_STATE_)
0368 0 literal NMASC_PCLI_DCH = 2843:      ! UNA Data chaining mode (coded byte of NMASC_STATE_)
0369 0 literal NMASC_PCLI_CRC = 2844:      ! UNA CRC mode (coded byte of NMASC_STATE_)
0370 0 literal NMASC_PCLI_HBQ = 2845:      ! UNA Hardware Buffer Quota (word)
0371 0 literal NMASC_PCLI_ACC = 2846:      ! UNA protocol access mode (coded byte of NMASC_ACC_)
0372 0 literal NMASC_PCLI_EKO = 2847:      ! UNA Echo mode (coded byte of NMASC_STATE_)
0373 0 literal NMASC_PCLI_BSZ = 2848:      ! UNA Device Buffer size
0374 0 literal NMASC_PCLI_DES = 2849:      ! UNA destination Ethernet address
0375 0 literal NMASC_PCLI_RET = 2850:      ! PCL number of retries (word)
0376 0 literal NMASC_PCLI_MOD = 2851:      ! PCL address mode (coded byte of NMASC_LINMO )
0377 0 literal NMASC_PCLI_RIB = 2852:      ! PCL retry-if-busy state (coded byte of NMASC_STATE_)
0378 0 literal NMASC_PCLI_MNTL = 2860:      ! Maintenance loopback mode for devices
0379 0 which support several different loop back modes
0380 0 literal NMASC_PCLI_INTL0 = 2861:      ! Internal loopback level 0
0381 0 literal NMASC_PCLI_INTL1 = 2862:      ! Internal loopback level 1
0382 0 literal NMASC_PCLI_INTL2 = 2863:      ! Internal loopback level 2
0383 0 literal NMASC_PCLI_INTL3 = 2864:      ! Internal loopback level 3
0384 0 literal NMASC_PCLI_FRA = 2865:      ! Framing address for Bisync
0385 0 literal NMASC_PCLI_STI1 = 2866:      ! State info 1st longword
0386 0 literal NMASC_PCLI_STI2 = 2867:      ! State info 2st longword
0387 0 literal NMASC_PCLI_TMO = 2868:      ! Wait for CTS time out value for DMF sync half duplex
0388 0 literal NMASC_PCLI_MCL = 2869:      ! Clear modem on deassign of channel
0389 0 literal NMASC_PCLI_SYC = 2870:      ! BISYNC protocol sync char
0390 0 literal NMASC_PCLI_BPC = 2871:      ! Number of bits per character
0391 0
0392 0 Server Base specific line parameters
0393 0
0394 0 literal NMASC_PCLI_SRV_OWN = 3300:      ! Owner
0395 0 literal NMASC_PCLI_SRV_UCS = 3311:      ! Unit CSR
0396 0 literal NMASC_PCLI_SRV_VEC = 3312:      ! Vector
0397 0 literal NMASC_PCLI_SRV_PRI = 3313:      ! Priority
0398 0 literal NMASC_PCLI_SRV_LOG = 3380:      ! Logical name
0399 0 literal NMASC_PCLI_SRV_DLG = 3385:      ! Designated name
0400 0 literal NMASC_PCLI_SRV_ACT = 3390:      ! Actual name
0401 0
0402 0 Console module parameters
0403 0
0404 0 literal NMASC_PCCO_RTR = 110:      ! Reservation timer (word)
0405 0

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0406 0      Loader module parameters
0407 0
0408 0 literal NMASC_PCLD_ASS = 10;      ! Assistance flag (coded byte of NMASC_ASS_)
0409 0
0410 0      Looper module parameters
0411 0
0412 0 literal NMASC_PCLP_ASS = 10;      ! Assistance flag (coded byte of NMASC_ASS_)
0413 0
0414 0      Configurator module parameters
0415 0
0416 0 literal NMASC_PCCN_CIR = 100;      ! NI circuit name (ascii)
0417 0 literal NMASC_PCCN_SUR = 110;      ! Surveillance flag (coded byte of NMASC_SUR_)
0418 0 literal NMASC_PCCN_ELT = 111;      ! Elapsed time
0419 0 literal NMASC_PCCN_PHA = 120;      ! Physical address (NI address)
0420 0 literal NMASC_PCCN_LRP = 130;      ! Time of last report
0421 0 literal NMASC_PCCN_MVR = 20001;    ! Maintenance version
0422 0 literal NMASC_PCCN_FCT = 20002;    ! Function list
0423 0 literal NMASC_PCCN_CUS = 20003;    ! Current console user (NI address)
0424 0 literal NMASC_PCCN_RTR = 20004;    ! Reservation timer (word)
0425 0 literal NMASC_PCCN_CSZ = 20005;    ! Command buffer size (word)
0426 0 literal NMASC_PCCN_RSZ = 20006;    ! Response buffer size (word)
0427 0 literal NMASC_PCCN_HWA = 20007;    ! Hardware address (NI address)
0428 0 literal NMASC_PCCN_DTY = 20100;    ! Device type (coded byte of NMASC_SOFD_)
0429 0 literal NMASC_PCCN_SFI = 20200;    ! Software ID
0430 0 literal NMASC_PCCN_SPR = 20300;    ! System processor (coded word)
0431 0 literal NMASC_PCCN_DLK = 20400;    ! Data link type (coded word)
0432 0
0433 0      Logging parameters
0434 0
0435 0 literal NMASC_PCLO_STA = 0;          ! State (coded byte of NMASC_STATE_)
0436 0 literal NMASC_PCLO_LNA = 100;      ! System/name (ascii)
0437 0 literal NMASC_PCLO_SIN = 200;      ! Sink node
0438 0 literal NMASC_PCLO_EVE = 201;      ! Events
0439 0
0440 0      X.25 Access module parameters
0441 0
0442 0 literal NMASC_PCXA_NOD = 320;        ! Node
0443 0 literal NMASC_PCXA_USR = 330;        ! User (ascii)
0444 0 literal NMASC_PCXA_PSW = 331;        ! Password (ascii)
0445 0 literal NMASC_PCXA_ACC = 332;        ! Account (ascii)
0446 0 literal NMASC_PCXA_NET = 1110;      ! Network (ascii)
0447 0
0448 0      RSX-specific X.25-Access module parameters
0449 0
0450 0 literal NMASC_PCXA_RSX_ADS = 2310;    ! Destination
0451 0 literal NMASC_PCXA_RSX_ANB = 2320;    ! Number
0452 0 literal NMASC_PCXA_RSX_ASC = 2330;    ! Scope
0453 0
0454 0      Server Base specific X.25-Access module parameters
0455 0
0456 0 literal NMASC_PCXA_SRV_ADS = 3310;    ! Destination
0457 0 literal NMASC_PCXA_SRV_ANB = 3320;    ! Number
0458 0 literal NMASC_PCXA_SRV_ASC = 3330;    ! Scope
0459 0
0460 0      X.25 Protocol module parameters
0461 0
0462 0 literal NMASC_PCXP_STA = 0;          ! State (coded byte of NMASC_STATE_)

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0463 0 literal NMASC_PCXP_CTM = 100: Counter timer (word)
0464 0 literal NMASC_PCXP_ACH = 1000: Active channels (word)
0465 0 literal NMASC_PCXP_ASW = 1010: Active switched (word)
0466 0 literal NMASC_PCXP_DTE = 1100: DTE (ascic)
0467 0 literal NMASC_PCXP_GRP = 1101: Group (ascic)
0468 0 literal NMASC_PCXP_NET = 1110: Network (ascic)
0469 0 literal NMASC_PCXP_LIN = 1120: Line (ascic)
0470 0 literal NMASC_PCXP_CHN = 1130: Channels
0471 0 literal NMASC_PCXP_MCH = 1131: Maximum channels (word)
0472 0 literal NMASC_PCXP_DBL = 1140: Default data (word)
0473 0 literal NMASC_PCXP_DWI = 1141: Default window (byte)
0474 0 literal NMASC_PCXP_MBL = 1150: Maximum data (word)
0475 0 literal NMASC_PCXP_MWI = 1151: Maximum window (byte)
0476 0 literal NMASC_PCXP_MCL = 1152: Maximum clears (byte)
0477 0 literal NMASC_PCXP_MRS = 1153: Maximum resets (byte)
0478 0 literal NMASC_PCXP_MST = 1154: Maximum restarts (byte)
0479 0 literal NMASC_PCXP_CAT = 1160: Call timer (byte)
0480 0 literal NMASC_PCXP_CLT = 1161: Clear timer (byte)
0481 0 literal NMASC_PCXP_RST = 1162: Reset timer (byte)
0482 0 literal NMASC_PCXP_STT = 1163: Restart timer (byte)
0483 0 literal NMASC_PCXP_GDT = 1170: Group DTE (ascic)
0484 0 literal NMASC_PCXP_GNM = 1171: Group number (word)
0485 0 literal NMASC_PCXP_GTY = 1172: Group type (coded byte of NMASC_XPRTY_)
0486 0
0487 0 RSX-specific X.25-Protocol Module parameters
0488 0
0489 0 literal NMASC_PCXP_RSX_PMC = 2300: ! Maximum circuits
0490 0
0491 0 VMS-specific X25-PROTOCOL NICE parameters [2700 - 2799]
0492 0
0493 0 literal NMASC_PCXP_MNS = 2700: ! Multinetwork Support flag (coded byte of NMASC_XPRMN_) [disabled, enabled]
0494 0 literal NMASC_PCXP_MCI = 2710: ! Maximum circuits, qualified by DTE
0495 0 literal NMASC_PCXP_SBS = 2720: ! Substate, qualified by DTE (coded byte of NMASC_XPRSB_)
0496 0
0497 0 Server Base specific X.25-Protocol Module parameters
0498 0
0499 0 literal NMASC_PCXP_SRV_PMC = 3300: ! Maximum circuits
0500 0
0501 0 X.25 server module parameters
0502 0
0503 0 literal NMASC_PCXS_CTM = 100: Counter timer (word)
0504 0 literal NMASC_PCXS_ACI = 200: Active circuits (word)
0505 0 literal NMASC_PCXS_DST = 300: Destination (ascic)
0506 0 literal NMASC_PCXS_MCI = 310: Maximum circuits (word)
0507 0 literal NMASC_PCXS_NOD = 320: Node
0508 0 literal NMASC_PCXS_USR = 330: Username
0509 0 literal NMASC_PCXS_SPW = 331: Password to set (ascic)
0510 0 literal NMASC_PCXS_RPW = 331: Password to read (coded byte of NMASC_NODPW_)
0511 0 literal NMASC_PCXS_ACC = 332: Account (ascic)
0512 0 literal NMASC_PCXS_OBJ = 340: Object
0513 0 literal NMASC_PCXS_PRI = 350: Priority (byte)
0514 0 literal NMASC_PCXS_CMK = 351: Call mask (byte-counted hex)
0515 0 literal NMASC_PCXS_CVL = 352: Call value (byte-counted hex)
0516 0 literal NMASC_PCXS_GRP = 353: Group (ascic)
0517 0 literal NMASC_PCXS_NUM = 354: Number (ascic)
0518 0 literal NMASC_PCXS_SAD = 355: Subaddresses
0519 0

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0520 0 RSX-specific X.25-Server Module parameters
0521 0
0522 0 literal NMASC_PCXS_RSX_SST = 2310; ! State
0523 0 0, On
0524 0 1, Off
0525 0
0526 0 VMS-specific X25-SERVER NICE parameters [2700 - 2799]
0527 0
0528 0 literal NMASC_PCXS_STA = 2700; ! Server state (coded byte of NMASC_STATE_)
0529 0 literal NMASC_PCXS_FIL = 2710; ! Object filespec (ascic)
0530 0
0531 0 Server Base specific X.25-Server Module parameters
0532 0
0533 0 literal NMASC_PCXS_SRV_SST = 3310; ! State
0534 0 0, On
0535 0 1, Off
0536 0
0537 0 X.25 trace module parameters (VMS-specific)
0538 0
0539 0 literal NMASC_PCXT_STA = 0; ! State (coded byte of NMASC_STATE_)
0540 0 literal NMASC_PCXT_BS2 = 100; ! Buffer size (word)
0541 0 literal NMASC_PCXT_MBK = 101; ! Maximum blocks/file (word)
0542 0 literal NMASC_PCXT_FNM = 102; ! Filename (ascic)
0543 0 literal NMASC_PCXT_MBF = 103; ! Maximum number of buffers (word)
0544 0 literal NMASC_PCXT_CPL = 104; ! Global data capture limit (word)
0545 0 literal NMASC_PCXT_MVR = 105; ! Maximum trace file version (word)
0546 0 literal NMASC_PCXT_TPT = 106; ! Trace point name (ascic)
0547 0 literal NMASC_PCXT_CPS = 110; ! Per-trace capture size (word)
0548 0 literal NMASC_PCXT_TST = 111; ! Per-trace state (coded byte of NMASC_STATE_)
0549 0
0550 0 Node parameters
0551 0
0552 0 literal NMASC_PCNO_STA = 0; ! State (coded byte of NMASC_STATE_)
0553 0 literal NMASC_PCNO_PHA = 10; ! Physical address (NI address)
0554 0 literal NMASC_PCNO_IDE = 100; ! Identification (ascic)
0555 0 literal NMASC_PCNO_MVE = 101; ! Management version (3 bytes)
0556 0 literal NMASC_PCNO_SLI = 110; ! Service circuit (ascic)
0557 0 literal NMASC_PCNO_SPA = 111; ! Service password (8 bytes)
0558 0 literal NMASC_PCNO_SDV = 112; ! Service device (coded byte of NMASC_SOFT_)
0559 0 literal NMASC_PCNO_CPU = 113; ! CPU type (coded byte of NMASC_CPU_)
0560 0 literal NMASC_PCNO_HWA = 114; ! Hardware address (NI address)
0561 0 literal NMASC_PCNO_SNV = 115; ! Service node version (coded byte of NMASC_SVN_)
0562 0 literal NMASC_PCNO_LOA = 120; ! Load file (ascic)
0563 0 literal NMASC_PCNO_SLO = 121; ! Secondary loader (ascic)
0564 0 literal NMASC_PCNO_TLO = 122; ! Tertiary loader (ascic)
0565 0 literal NMASC_PCNO_DFL = 123; ! Diagnostic file (ascic)
0566 0 literal NMASC_PCNO_STY = 125; ! Software type (coded byte of NMASC_SOFT_)
0567 0 literal NMASC_PCNO_SID = 126; ! Software ID (ascic)
0568 0 literal NMASC_PCNO_DUM = 130; ! Dump file (ascic)
0569 0 literal NMASC_PCNO_SDU = 131; ! Secondary dumper (ascic)
0570 0 literal NMASC_PCNO_DAD = 135; ! Dump address (longword)
0571 0 literal NMASC_PCNO_DCT = 136; ! Dump count (longword)
0572 0 literal NMASC_PCNO_OHO = 140; ! Host (read only parameter)
0573 0 literal NMASC_PCNO_IHO = 141; ! Host (write only parameter)
0574 0 literal NMASC_PCNO_LPC = 150; ! Loop count (word)
0575 0 literal NMASC_PCNO_LPL = 151; ! Loop length (word)
0576 0 literal NMASC_PCNO_LPD = 152; ! Loop Data type (coded byte of NMASC_LOOP_)

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0577 0 literal NMASC_PCNO_LPA = 153:
0578 0 literal NMASC_PCNO_LPH = 154:
0579 0 literal NMASC_PCNO_LPN = 155:
0580 0 literal NMASC_PCNO_LAN = 156:
0581 0 literal NMASC_PCNO_CTI = 160:
0582 0 literal NMASC_PCNO_NNA = 500:
0583 0 literal NMASC_PCNO_NLI = 501:
0584 0 literal NMASC_PCNO_ADD = 502:
0585 0 literal NMASC_PCNO_ITI = 510:
0586 0 literal NMASC_PCNO_OTI = 511:
0587 0 literal NMASC_PCNO_ACL = 600:
0588 0 literal NMASC_PCNO_DEL = 601:
0589 0 literal NMASC_PCNO_NVE = 700:
0590 0 literal NMASC_PCNO_MLK = 710:
0591 0 literal NMASC_PCNO_DFA = 720:
0592 0 literal NMASC_PCNO_DWE = 721:
0593 0 literal NMASC_PCNO_IAT = 722:
0594 0 literal NMASC_PCNO_RFA = 723:
0595 0 literal NMASC_PCNO_DTY = 810:
0596 0 literal NMASC_PCNO_DCO = 820:
0597 0 literal NMASC_PCNO_DHO = 821:
0598 0 literal NMASC_PCNO_DLI = 822:
0599 0 literal NMASC_PCNO_NND = 830:
0600 0 literal NMASC_PCNO_RVE = 900:
0601 0 literal NMASC_PCNO_ETY = 901:
0602 0 literal NMASC_PCNO_RTI = 910:
0603 0 literal NMASC_PCNO_SAD = 911:
0604 0 literal NMASC_PCNO_BRT = 912:
0605 0 literal NMASC_PCNO_MAD = 920:
0606 0 literal NMASC_PCNO_MLN = 921:
0607 0 literal NMASC_PCNO_MCO = 922:
0608 0 literal NMASC_PCNO_MHO = 923:
0609 0 literal NMASC_PCNO_MVI = 924:
0610 0 literal NMASC_PCNO_MAR = 925:
0611 0 literal NMASC_PCNO_MBE = 926:
0612 0 literal NMASC_PCNO_MBR = 927:
0613 0 literal NMASC_PCNO_AMC = 928:
0614 0 literal NMASC_PCNO_AMH = 929:
0615 0 literal NMASC_PCNO_MBU = 930:
0616 0 literal NMASC_PCNO_BUS = 931:
0617 0 literal NMASC_PCNO_SBS = 932:
0618 0 literal NMASC_PCNO_FBS = 933:
0619 0
0620 0 RSX-Specific Node (Executor) parameters
0621 0
0622 0 literal NMASC_PCNO_RSX_RPA = 2300: ! Receive password
0623 0 0, Password set
0624 0 literal NMASC_PCNO_RSX_TPA = 2301: ! Transmit password
0625 0 0, Password set
0626 0 literal NMASC_PCNO_RSX_VER = 2310: ! Verification state
0627 0 0, On
0628 0 1, Off
0629 0
0630 0 VMS-specific node parameters
0631 0
0632 0 literal NMASC_PCNO_PUS = 2704: ! Privileged user id
0633 0 literal NMASC_PCNO_PAC = 2705: ! Privileged account

```

```

Loop assistant physical address (NI address)
Loop help type (coded byte)
Loop circuit node
Loop circuit assistant node
Counter timer (word)
Name
Circuit (ascii)
Address
Incoming timer (word)
Outgoing timer (word)
Active links (word)
Delay (word)
Nsp version (3 bytes)
Maximum links (word)
Delay factor (byte)
Delay weight (byte)
Inactivity timer (word)
Retransmit factor (word)
Destination Type (coded byte of NMASC_XPTY_)
Destination Cost (word)
Destination Hops (byte)
Destination circuit (ascii)
Next node to destination
Routing version (3 bytes)
Executor Type (coded byte of NMASC_NODTY_)
Routing timer (word)
Subaddress (2 words)
Broadcast routing timer (word)
Maximum address (word)
Maximum circuits (word)
Maximum cost (word)
Maximum hops (byte)
Maximum visits (byte)
Maximum areas (byte)
Maximum broadcast nonrouters (word)
Maximum broadcast routers (word)
Area maximum cost (word)
Area maximum hops (byte)
Maximum buffers (word)
Executor buffer size (word)
Segment buffer size (word)
Forwarding buffer size (word)

```



```

0634 0 literal NMASC_PCNO_PPW = 2706:      | Privileged password
0635 0 literal NMASC_PCNO_NUS = 2712:      | Non-privileged user id
0636 0 literal NMASC_PCNO_NAC = 2713:      | Non-privileged account
0637 0 literal NMASC_PCNO_NPW = 2714:      | Non-privileged password
0638 0 literal NMASC_PCNO_RPA = 2720:      | Receive password
0639 0 literal NMASC_PCNO_TPA = 2721:      | Transmit password
0640 0 literal NMASC_PCNO_ACC = 2730:      | Access (coded byte of NMASC_ACES_)
0641 0 literal NMASC_PCNO_DAC = 2731:      | Default access (coded byte of NMASC_ACES_)
0642 0 literal NMASC_PCNO_PIQ = 2740:      | Pipeline quota (word)
0643 0 literal NMASC_PCNO_ALI = 2741:      | Alias address (word)
0644 0 literal NMASC_PCNO_PRX = 2750:      | Proxy access (coded byte of NMASC_ACES_) !! Obsolete: Only for LIST/PURGE
0645 0 literal NMASC_PCNO_DPX = 2751:      | Default proxy access (coded byte of NMASC_ACES_)
0646 0
0647 0      Server Base specific Node (Executor) parameters
0648 0
0649 0 literal NMASC_PCNO_SRV_RPA = 3300:      | Receive password
0650 0      0, Password set
0651 0 literal NMASC_PCNO_SRV_TPA = 3301:      | Transmit password
0652 0      0, Password set
0653 0 literal NMASC_PCNO_SRV_VER = 3310:      | Verification state
0654 0      0, On
0655 0      1, Off
0656 0 literal NMASC_PCNO_SRV_ACB = 3402:      | Active control buffers
0657 0 literal NMASC_PCNO_SRV_ASB = 3404:      | Active small buffers
0658 0 literal NMASC_PCNO_SRV_ALB = 3406:      | Active large buffers
0659 0 literal NMASC_PCNO_SRV_MCB = 3410:      | Maximum control buffers
0660 0 literal NMASC_PCNO_SRV_MSB = 3420:      | Maximum small buffers
0661 0 literal NMASC_PCNO_SRV_MLB = 3430:      | Maximum large buffers
0662 0 literal NMASC_PCNO_SRV_LBS = 3431:      | Large buffer size
0663 0 literal NMASC_PCNO_SRV_NRB = 3440:      | Minimum receive buffers
0664 0 literal NMASC_PCNO_SRV_CPT = 3450:      | CEX pool: total bytes
0665 0 literal NMASC_PCNO_SRV_CPF = 3452:      | CEX pool: number of segments
0666 0 literal NMASC_PCNO_SRV_CPL = 3454:      | CEX pool: largest segment
0667 0 literal NMASC_PCNO_SRV_XPT = 3460:      | Extended pool: total bytes
0668 0 literal NMASC_PCNO_SRV_XPF = 3462:      | Extended pool: number of segments
0669 0 literal NMASC_PCNO_SRV_XPL = 3464:      | Extended pool: largest segment
0670 0
0671 0      Area parameters
0672 0
0673 0 literal NMASC_PCAR_STA = 0:      | State (coded byte of NMASC_STATE_)
0674 0 literal NMASC_PCAR_COS = 820:      | Cost (word)
0675 0 literal NMASC_PCAR_HOP = 821:      | Hops (byte)
0676 0 literal NMASC_PCAR_CIR = 822:      | Circuit (ascii)
0677 0 literal NMASC_PCAR_NND = 830:      | Next node to area
0678 0
0679 0      VMS-specific object parameters
0680 0
0681 0 literal NMASC_PCOB_OAN = 400:      | Active name
0682 0 literal NMASC_PCOB_OAC = 410:      | Active links
0683 0 literal NMASC_PCOB_ONA = 500:      | Name
0684 0 literal NMASC_PCOB_OCO = 510:      | Copies
0685 0 literal NMASC_PCOB_OUS = 511:      | User
0686 0 literal NMASC_PCOB_OVE = 520:      | Verification
0687 0 literal NMASC_PCOB_NAM = 500:      | Name
0688 0 literal NMASC_PCOB_NUM = 513:      | Number
0689 0 literal NMASC_PCOB_FID = 530:      | File id
0690 0 literal NMASC_PCOB_PID = 535:      | Process id

```

```

0691 0 Literal NMASC_PCOB_PRV = 540:
0692 0 Literal NMASC_PCOB_USR = 550:
0693 0 Literal NMASC_PCOB_ACC = 551:
0694 0 Literal NMASC_PCOB_PSW = 552:
0695 0 Literal NMASC_PCOB_PRX = 560:
0696 0
0697 0 VMS-specific link parameters
0698 0
0699 0 Literal NMASC_PCLK_STA = 0:
0700 0 Literal NMASC_PCLK_PID = 101:
0701 0 Literal NMASC_PCLK_NID = 102:
0702 0 Literal NMASC_PCLK_LAD = 105:
0703 0 entity is node father than link !
0704 0 CM-1/2, DU-2 (link !), HI-4 (pid)
0705 0 Literal NMASC_PCLK_DLY = 110:
0706 0 Literal NMASC_PCLK_RLN = 120:
0707 0 Literal NMASC_PCLK_RID = 121:
0708 0 Literal NMASC_PCLK_USR = 130:
0709 0 Literal NMASC_PCLK_PRC = 131:
0710 0
0711 0 Circuit counters
0712 0
0713 0 Literal NMASC_CTCIR_ZER = 0:
0714 0 Literal NMASC_CTCIR_APR = 800:
0715 0 Literal NMASC_CTCIR_DPS = 801:
0716 0 Literal NMASC_CTCIR_ACL = 802:
0717 0 Literal NMASC_CTCIR_CRL = 805:
0718 0 Literal NMASC_CTCIR_TPR = 810:
0719 0 Literal NMASC_CTCIR_TPS = 811:
0720 0 Literal NMASC_CTCIR_TCL = 812:
0721 0 Literal NMASC_CTCIR_LDN = 820:
0722 0 Literal NMASC_CTCIR_IFL = 821:
0723 0 Literal NMASC_CTCIR_BRC = 1000:
0724 0 Literal NMASC_CTCIR_BSN = 1001:
0725 0 Literal NMASC_CTCIR_MBY = 1002:
0726 0 Literal NMASC_CTCIR_DBR = 1010:
0727 0 Literal NMASC_CTCIR_DBS = 1011:
0728 0 Literal NMASC_CTCIR_DEI = 1020:
0729 0 Literal NMASC_CTCIR_DEO = 1021:
0730 0 Literal NMASC_CTCIR_RRT = 1030:
0731 0 Literal NMASC_CTCIR_LRT = 1031:
0732 0 Literal NMASC_CTCIR_RBE = 1040:
0733 0 Literal NMASC_CTCIR_LBE = 1041:
0734 0 Literal NMASC_CTCIR_SIE = 1050:
0735 0 Literal NMASC_CTCIR_SLT = 1051:
0736 0 Literal NMASC_CTCIR_UBU = 1065:
0737 0 Literal NMASC_CTCIR_RPE = 1100:
0738 0 Literal NMASC_CTCIR_LPE = 1101:
0739 0 Literal NMASC_CTCIR_LIR = 1240:
0740 0 Literal NMASC_CTCIR_RIR = 1241:
0741 0 Literal NMASC_CTCIR_NIR = 1242:
0742 0
0743 0 VMS-specific circuit counters
0744 0
0745 0 Literal NMASC_CTCIR_MNE = 2701:
0746 0 type, but not enabled
0747 0 Literal NMASC_CTCIR_ERI = 2750:

```

```

: Privilege List
: User id
: Account
: Password
: Proxy access (coded byte of NMASC_ACES_)

: State
: Process id
: Partner Node
: Link address [V2 only]

: Round trip delay time (word)
: Remote link number (word)
: Remote identification, PID or username (ascii)
: Username of link owner (ascii)
: Process name of link owner (ascii)

: Seconds since last zeroed
: Terminating packets received
: Originating packets sent
: Terminating congestion loss
: Corruption loss
: Transit packets received
: Transit packets sent
: Transit congestion loss
: Circuit down
: Initialization failure
: Bytes received
: Bytes sent
: Multicast bytes received
: Data blocks received
: Data blocks sent
: Data errors inbound
: Data errors outbound
: Remote reply timeouts
: Local reply timeouts
: Remote buffer errors
: Local buffer errors
: Selection intervals elapsed
: Selection timeouts
: NI user buffer unavailable
: Remote process errors [V2 only]
: Local process errors [V2 only]
: Locally initiated resets
: Remotely initiated resets
: Network initiated resets

```

```

: Multicast received for protocol
: PCL Errors inbound, bit-mapped

```

```

0748 0 0 CRC error on receive
0749 0 0 Literal NMASC CTCIR_ERO = 2751;
0750 0 0 1 CRC on transmit
0751 0 0 2 Timeout on word
0752 0 0 Literal NMASC CTCIR_RTO = 2752;
0753 0 0 0 Receiver busy
0754 0 0 1 Transmitter offline
0755 0 0 2 Receiver offline
0756 0 0 Literal NMASC CTCIR_LTO = 2753;
0757 0 0 Literal NMASC CTCIR_BER = 2754;
0758 0 0 Literal NMASC CTCIR_BEL = 2755;
0759 0 0
0760 0 0 Line counters
0761 0 0
0762 0 0 Literal NMASC CTLIN_ZER = 0;
0763 0 0 Literal NMASC CTLIN_APR = 800;
0764 0 0 Literal NMASC CTLIN_DPS = 801;
0765 0 0 Literal NMASC CTLIN_ACL = 802;
0766 0 0 Literal NMASC CTLIN_TPR = 810;
0767 0 0 Literal NMASC CTLIN_TPS = 811;
0768 0 0 Literal NMASC CTLIN_TCL = 812;
0769 0 0 Literal NMASC CTLIN_LDN = 820;
0770 0 0 Literal NMASC CTLIN_IFL = 821;
0771 0 0 Literal NMASC CTLIN_BRC = 1000;
0772 0 0 Literal NMASC CTLIN_BSN = 1001;
0773 0 0 Literal NMASC CTLIN_MBY = 1002;
0774 0 0 Literal NMASC CTLIN_DBR = 1010;
0775 0 0 Literal NMASC CTLIN_DBS = 1011;
0776 0 0 Literal NMASC CTLIN_MBL = 1012;
0777 0 0 Literal NMASC CTLIN_BID = 1013;
0778 0 0 Literal NMASC CTLIN_BSI = 1014;
0779 0 0 Literal NMASC CTLIN_BSM = 1015;
0780 0 0 Literal NMASC CTLIN_DEI = 1020;
0781 0 0 Literal NMASC CTLIN_DEO = 1021;
0782 0 0 Literal NMASC CTLIN_RRT = 1030;
0783 0 0 Literal NMASC CTLIN_LRT = 1031;
0784 0 0 Literal NMASC CTLIN_RBE = 1040;
0785 0 0 Literal NMASC CTLIN_LBE = 1041;
0786 0 0 Literal NMASC CTLIN_SIE = 1050;
0787 0 0 Literal NMASC CTLIN_SLT = 1051;
0788 0 0 Literal NMASC CTLIN_SFL = 1060;
0789 0 0 Literal NMASC CTLIN_CDC = 1061;
0790 0 0 Literal NMASC CTLIN_RFL = 1062;
0791 0 0 Literal NMASC CTLIN_UFD = 1063;
0792 0 0 Literal NMASC CTLIN_OVR = 1064;
0793 0 0 Literal NMASC CTLIN_SBU = 1065;
0794 0 0 Literal NMASC CTLIN_UBU = 1066;
0795 0 0 Literal NMASC CTLIN_RPE = 1100;
0796 0 0 Literal NMASC CTLIN_LPE = 1101;
0797 0 0
0798 0 0 Line counter flags (byte offset will be 0)
0799 0 0
0800 0 0 Literal NMASS NMADEF1 = 2;
0801 0 0 macro NMA$W_NODE = 0,0,16,0 %;
0802 0 0 macro NMA$V_ADDR = 0,0,10,0 %;
0803 0 0 Literal NMA$S_ADDR = 10;
0804 0 0 macro NMA$V_AREA = 0,10,6,0 %;

```



```

0805 0 literal NMASS_AREA = 6;
0806 0
0807 0 Parameter ID word (DATA ID)
0808 0
0809 0 macro NMASSV_PTY_TYP = 0,0,15,0 %;
0810 0 literal NMASS_PTY_TYP = 15; ! Type mask
0811 0
0812 0 Parameter data type byte (DATA TYPE)
0813 0
0814 0 macro NMASSV_PTY_CLE = 0,0,6,0 %;
0815 0 literal NMASS_PTY_CLE = 6; ! Coded length mask
0816 0 macro NMASSV_PTY_MDL = 0,6,1,0 %; ! Coded multiple indicator
0817 0 macro NMASSV_PTY_COD = 0,7,1,0 %; ! Coded indicator
0818 0 macro NMASSV_PTY_CMU = 0,6,2,0 %;
0819 0 literal NMASS_PTY_CMU = 2; ! Coded multiple
0820 0 macro NMASSV_PTY_NLE = 0,0,4,0 %;
0821 0 literal NMASS_PTY_NLE = 4; ! Number length mask
0822 0 macro NMASSV_PTY_NTY = 0,4,2,0 %;
0823 0 literal NMASS_PTY_NTY = 2; ! Number type mask
0824 0 macro NMASSV_PTY_ASC = 0,6,1,0 %; ! Ascii image indicator
0825 0 ! NTY values (How to display number):
0826 0 literal NMASS_CTLIN_BTL = 8;
0827 0 literal NMASS_CTLIN_FCS = 16;
0828 0 literal NMASS_CTLIN_TRJ = 32;
0829 0 literal NMASS_NMADEF2 = 1;
0830 0 macro NMASSV_CTLIN_BTL = 0,3,1,0 %; ! block too long
0831 0 macro NMASSV_CTLIN_FCS = 0,4,1,0 %; ! frame check
0832 0 macro NMASSV_CTLIN_TRJ = 0,5,1,0 %; ! REJ sent
0833 0 literal NMASS_CTLIN_RRJ = 8;
0834 0 literal NMASS_NMADEF3 = 1;
0835 0 macro NMASSV_CTLIN_RRJ = 0,3,1,0 %; ! REJ received
0836 0 literal NMASS_CTLIN_RRN = 4;
0837 0 literal NMASS_NMADEF4 = 1;
0838 0 macro NMASSV_CTLIN_RRN = 0,2,1,0 %; ! RNR received
0839 0 literal NMASS_CTLIN_TRN = 4;
0840 0 literal NMASS_NMADEF5 = 1;
0841 0 macro NMASSV_CTLIN_TRN = 0,2,1,0 %; ! RNR sent
0842 0 literal NMASS_CTLIN_INR = 16;
0843 0 literal NMASS_CTLIN_FMS = 32;
0844 0 literal NMASS_NMADEF6 = 1;
0845 0 macro NMASSV_CTLIN_INR = 0,4,1,0 %; ! invalid N(R) received
0846 0 macro NMASSV_CTLIN_FMS = 0,5,1,0 %; ! FRMR sent
0847 0 literal NMASS_CTLIN_TUN = 4;
0848 0 literal NMASS_CTLIN_RUN = 16;
0849 0 literal NMASS_CTLIN_FMR = 32;
0850 0 literal NMASS_CTLIN_MBS = 2701; ! Multicast packets transmitted
0851 0 literal NMASS_CTLIN_MSN = 2702; ! Multicast bytes transmitted
0852 0 literal NMASS_CTLIN_RME = 2750; ! PCL Remote errors, bit-mapped
0853 0 0 TDM bus busy
0854 0 1 Message rejected
0855 0 2 Message truncated
0856 0 3 Receiver offline
0857 0 4 Receiver busy
0858 0 5 Transmitter offline
0859 0 literal NMASS_CTLIN_LCE = 2751; ! PCL Local errors, bit-mapped
0860 0 0 Transmitter overrun
0861 0 1 CRC error on transmit

```

```

0862 0      2 CRC error on receive
0863 0      3 Timeouts
0864 0      4 Non-existent memory transmit
0865 0      5 Non-existent memory receive
0866 0      6 Buffer too small
0867 0      7 Failed to open channel
0868 0      8 Memory overflow
0869 0      literal NMASC_CTLIN_MSE = 2752;      : PCL master/secondary errors, bit-mapped
0870 0      1 Master down
0871 0      2 Now master
0872 0
0873 0      Node counters
0874 0
0875 0      literal NMASC_CTNOd_ZER = 0;      : Seconds since last zeroed
0876 0      literal NMASC_CTNOd_BRC = 600;      : Bytes received
0877 0      literal NMASC_CTNOd_BSN = 601;      : Bytes sent
0878 0      literal NMASC_CTNOd_MRC = 610;      : Messages received
0879 0      literal NMASC_CTNOd_MSN = 611;      : Messages sent
0880 0      literal NMASC_CTNOd_CRC = 620;      : Connects received
0881 0      literal NMASC_CTNOd_CSN = 621;      : Connects sent
0882 0      literal NMASC_CTNOd_RTO = 630;      : Response timeouts
0883 0      literal NMASC_CTNOd_RSE = 640;      : Received connect resource errors
0884 0      literal NMASC_CTNOd_MLL = 700;      : Maximum logical links active
0885 0      literal NMASC_CTNOd_APL = 900;      : Aged packet loss
0886 0      literal NMASC_CTNOd_NUL = 901;      : Node unreachable packet loss
0887 0      literal NMASC_CTNOd_NOL = 902;      : Node out-of-range packet loss
0888 0      literal NMASC_CTNOd_OPL = 903;      : Oversized packet loss
0889 0      literal NMASC_CTNOd_PFE = 910;      : Packet format error
0890 0      literal NMASC_CTNOd_RUL = 920;      : Partial routing update loss
0891 0      literal NMASC_CTNOd_VER = 930;      : Verification reject
0892 0
0893 0      Server Base Specific Executor Node Counters
0894 0
0895 0      literal NMASC_CTNOd_SRV_SYC = 3310;      : Control buffer failures
0896 0      literal NMASC_CTNOd_SRV_SYS = 3320;      : Small buffer failures
0897 0      literal NMASC_CTNOd_SRV_SYL = 3330;      : Large buffer failures
0898 0      literal NMASC_CTNOd_SRV_SYR = 3340;      : Receive buffer failures
0899 0
0900 0      X.25 Protocol module counters
0901 0
0902 0      literal NMASC_CTXP_ZER = 0;      : Seconds since last zeroed
0903 0      literal NMASC_CTXP_BRC = 1000;      : Bytes received
0904 0      literal NMASC_CTXP_BSN = 1001;      : Bytes sent
0905 0      literal NMASC_CTXP_BLR = 1010;      : Data blocks received
0906 0      literal NMASC_CTXP_BLS = 1011;      : Data blocks sent
0907 0      literal NMASC_CTXP_CRC = 1200;      : Calls received
0908 0      literal NMASC_CTXP_CSN = 1201;      : Calls sent
0909 0      literal NMASC_CTXP_FSR = 1210;      : Fast selects received
0910 0      literal NMASC_CTXP_FSS = 1211;      : Fast selects sent
0911 0      literal NMASC_CTXP_MSA = 1220;      : Maximum switched circuits active
0912 0      literal NMASC_CTXP_MCA = 1221;      : Maximum channels active
0913 0      literal NMASC_CTXP_RSE = 1230;      : Received call resource errors
0914 0      literal NMASC_CTXP_LIR = 1240;      : Locally initiated resets
0915 0      literal NMASC_CTXP_RIR = 1241;      : Remotely initiated resets
0916 0      literal NMASC_CTXP_NIR = 1242;      : Network initiated resets
0917 0      literal NMASC_CTXP_RST = 1250;      : Restarts
0918 0

```

```

0919 0      X.25 Server module counters
0920 0
0921 0      literal NMASC_CTXS_ZER = 0;      ! Seconds since last zeroed
0922 0      literal NMASC_CTXS_MCA = 200;    ! Maximum circuits active
0923 0      literal NMASC_CTXS_ICR = 210;    ! Incoming calls rejected, no resources
0924 0      literal NMASC_CTXS_LLR = 211;    ! Logical links rejected, no resources
0925 0
0926 0      Coded parameter values
0927 0
0928 0      Loop test block type coded values
0929 0
0930 0
0931 0      literal NMASC_LOOP_MIX = 2;      ! Mixed
0932 0      literal NMASC_LOOP_ONE = 1;      ! Ones
0933 0      literal NMASC_LOOP_ZER = 0;      ! Zeroes
0934 0
0935 0      Default values for loop functions
0936 0
0937 0      literal NMASC_LOOP_DCNT = 1;      ! Default count
0938 0      literal NMASC_LOOP_DSIZ = 40;    ! Default message size
0939 0
0940 0      Values for LOOP HELP
0941 0
0942 0      literal NMASC_LOOP_XMIT = 0;      ! Transmit
0943 0      literal NMASC_LOOP_RECV = 1;      ! Receive
0944 0      literal NMASC_LOOP_FULL = 2;      ! Full (both transmit and receive)
0945 0
0946 0      State coded values
0947 0
0948 0      literal NMASC_STATE_ON = 0;      ! On
0949 0      literal NMASC_STATE_OFF = 1;      ! Off
0950 0
0951 0      circuit/line/process specific state values
0952 0
0953 0      literal NMASC_STATE_SER = 2;      ! Service (circuit/line only)
0954 0      literal NMASC_STATE_CLE = 3;      ! Cleared
0955 0
0956 0      logging specific state values
0957 0
0958 0      literal NMASC_STATE_HOL = 2;      ! Hold
0959 0
0960 0      node specific state values
0961 0
0962 0      literal NMASC_STATE_SHU = 2;      ! Shut
0963 0      literal NMASC_STATE_RES = 3;      ! Restricted
0964 0      literal NMASC_STATE_REA = 4;      ! Reachable
0965 0      literal NMASC_STATE_UNR = 5;      ! Unreachable
0966 0
0967 0      Looper/loader assistance coded values
0968 0
0969 0      literal NMASC_ASS_ENA = 0;      ! Enabled
0970 0      literal NMASC_ASS_DIS = 1;      ! Disabled
0971 0
0972 0      Configurator surveillance coded values
0973 0
0974 0      literal NMASC_SUR_ENA = 0;      ! Enabled
0975 0      literal NMASC_SUR_DIS = 1;      ! Disabled

```



0976 0  
0977 0  
0978 0  
0979 0  
0980 0  
0981 0  
0982 0  
0983 0  
0984 0  
0985 0  
0986 0  
0987 0  
0988 0  
0989 0  
0990 0  
0991 0  
0992 0  
0993 0  
0994 0  
0995 0  
0996 0  
0997 0  
0998 0  
0999 0  
1000 0  
1001 0  
1002 0  
1003 0  
1004 0  
1005 0  
1006 0  
1007 0  
1008 0  
1009 0  
1010 0  
1011 0  
1012 0  
1013 0  
1014 0  
1015 0  
1016 0  
1017 0  
1018 0  
1019 0  
1020 0  
1021 0  
1022 0  
1023 0  
1024 0  
1025 0  
1026 0  
1027 0  
1028 0  
1029 0  
1030 0  
1031 0  
1032 0

# Circuit/Line substate coded values

literal NMASC_LINSS_STA = 0;	Starting
literal NMASC_LINSS_REF = 1;	Reflecting
literal NMASC_LINSS_LOO = 2;	Looping
literal NMASC_LINSS_LOA = 3;	Loading
literal NMASC_LINSS_DUM = 4;	Dumping
literal NMASC_LINSS_TRI = 5;	Triggering
literal NMASC_LINSS_ASE = 6;	Autoservice
literal NMASC_LINSS_ALO = 7;	Autoloading
literal NMASC_LINSS_ADU = 8;	Autodumping
literal NMASC_LINSS_ATR = 9;	Autotriggering
literal NMASC_LINSS_SYN = 10;	Synchronizing
literal NMASC_LINSS_FAI = 11;	Failed
literal NMASC_LINSS_RUN = 12;	Running
literal NMASC_LINSS_UNO = 13;	Unsyncronised
literal NMASC_LINSS_IDL = 14;	Idle (PSI-only)

## Circuit type coded values [In V2, line type coded values]

literal NMASC_CIRTY_POI = 0;	DDCMP Point
literal NMASC_CIRTY_CON = 1;	DDCMP Controller
literal NMASC_CIRTY_TRI = 2;	DDCMP Tributary
literal NMASC_CIRTY_X25 = 3;	X25
literal NMASC_CIRTY_DMC = 4;	DDCMP DMC compatibility mode (DMP)
/* CIRTY LAPB, 5	/* LAPB *** remove once all references have been changed to LAPB ***
literal NMASC_CIRTY_NI = 6;	NI

## Circuit/Line Service

literal NMASC_LINSV_ENA = 0;	Enabled
literal NMASC_LINSV_DIS = 1;	Disabled

## Circuit polling state

literal NMASC_CIRPST_AUT = 1;	Automatic
literal NMASC_CIRPST_ACT = 2;	Active
literal NMASC_CIRPST_INA = 3;	Inactive
literal NMASC_CIRPST_DIE = 4;	Dying
literal NMASC_CIRPST_DED = 5;	Dead

## Circuit blocking values

literal NMASC_CIRBLK_ENA = 0;	Enabled
literal NMASC_CIRBLK_DIS = 1;	Disabled

## Circuit usage values

literal NMASC_CIRUS_PER = 0;	Permanent
literal NMASC_CIRUS_INC = 1;	Incoming
literal NMASC_CIRUS_OUT = 2;	Outgoing

## Circuit maximum receive buffers

literal NMASC_CIRBF_UNL = 255;	Unlimited
--------------------------------	-----------

```

1033 0      Circuit verification      [VMS only]
1034 0
1035 0      literal NMASC_CIRVE_ENA = 0;      : Enabled
1036 0      literal NMASC_CIRVE_DIS = 1;      : Disabled
1037 0
1038 0      Circuit (desired) transport type  [VMS only]
1039 0
1040 0      literal NMASC_CIRXPT_ZND = 1;      : Z-node
1041 0      literal NMASC_CIRXPT_PH2 = 2;      : Force Phase II on this circuit
1042 0      literal NMASC_CIRXPT_PH3 = 3;      : Routing III
1043 0      literal NMASC_CIRXPT_RO3 = 3;      : Routing III
1044 0      literal NMASC_CIRXPT_NR4 = 4;      : Nonrouting Phase IV
1045 0
1046 0      Line duplex coded values
1047 0
1048 0      literal NMASC_DPX_FUL = 0;      : Full
1049 0      literal NMASC_DPX_HAL = 1;      : Half
1050 0
1051 0      Line controller mode
1052 0
1053 0      literal NMASC_LINCN_NOR = 0;      : Normal
1054 0      literal NMASC_LINCN_LOO = 1;      : Loop
1055 0
1056 0      Line protocol values (same as CIRTYP_)
1057 0
1058 0      literal NMASC_LINPR_POI = 0;      : DDCMP Point
1059 0      literal NMASC_LINPR_CON = 1;      : DDCMP Controller
1060 0      literal NMASC_LINPR_TRI = 2;      : DDCMP Tributary
1061 0      literal NMASC_LINPR_DMC = 4;      : DDCMP DMC compatibility mode (DMP)
1062 0      literal NMASC_LINPR_LAPB = 5;      : LAPB
1063 0      literal NMASC_LINPR_NI = 6;      : NI
1064 0      literal NMASC_LINPR_BSY = 9;      : BISYNC
1065 0
1066 0      Line protocol values for the PCL-11B
1067 0
1068 0      literal NMASC_LINPR_MAS = 1;      : Master (controls clock signals)
1069 0      literal NMASC_LINPR_NEU = 2;      : Neutral (uses master's clock signals)
1070 0      literal NMASC_LINPR_SEC = 0;      : Secondary (backup for master failure)
1071 0
1072 0      Line clock values
1073 0
1074 0      literal NMASC_LINCL_EXT = 0;      : External
1075 0      literal NMASC_LINCL_INT = 1;      : Internal
1076 0
1077 0      Line type coded values [V2 only]
1078 0
1079 0      literal NMASC_LINTY_POI = 0;      : DDCMP Point
1080 0      literal NMASC_LINTY_CON = 1;      : DDCMP Controller
1081 0      literal NMASC_LINTY_TRI = 2;      : DDCMP Tributary
1082 0      literal NMASC_LINTY_DMC = 3;      : DDCMP DMC compatibility mode (DMP)
1083 0
1084 0      Line multicast address function code [VMS datalink only].
1085 0      Destination and physical address function codes too [VMS datalink only].
1086 0
1087 0      literal NMASC_LINMC_SET = 1;      : Set address(es)
1088 0      literal NMASC_LINMC_CLR = 2;      : Clear address(es)
1089 0      literal NMASC_LINMC_CAL = 3;      : Clear entire list of multicast addresses

```

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\_S255\$DUA28:[NCP.OBJ]NMADEF.R32;1

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```
1090 0 literal NMASC_LINMC_SDF = 4;          ! Set physical address to DECnet default
1091 0
1092 0 NI line protocol access mode [VMS datalink only]
1093 0
1094 0 literal NMASC_ACC_SHR = 1;          ! Shared access (default protocol user)
1095 0 literal NMASC_ACC_LIM = 2;          ! Limited access (point-to-point conn.)
1096 0 literal NMASC_ACC_EXC = 3;          ! Exclusive access (allow no others)
1097 0
1098 0 PCL-11B address mode
1099 0
1100 0 literal NMASC_LINMO_AUT = 1;         ! Auto address mode
1101 0 literal NMASC_LINMO_SIL = 2;         ! Silo address mode
1102 0
1103 0 X.25 line mode
1104 0
1105 0 literal NMASC_X25MD_DTE = 1;         ! Line operates as DTE
1106 0 literal NMASC_X25MD_DCE = 2;         ! Line operates as DCE
1107 0 literal NMASC_X25MD_DTL = 3;         ! Line is a DTE in loopback
1108 0 literal NMASC_X25MD_DCL = 4;         ! Line is a DCE in loopback
1109 0
1110 0 Node type values
1111 0
1112 0 literal NMASC_NODTY_ROU = 0;         ! Routing Phase III
1113 0 literal NMASC_NODTY_NON = 1;         ! Nonrouting Phase III
1114 0 literal NMASC_NODTY_PHA = 2;         ! Phase II
1115 0 literal NMASC_NODTY_AREA = 3;        ! Area
1116 0 literal NMASC_NODTY_RT4 = 4;        ! Routing Phase IV
1117 0 literal NMASC_NODTY_NR4 = 5;        ! Nonrouting Phase IV
1118 0
1119 0 Node password values
1120 0
1121 0 literal NMASC_NODPW_SET = 0;         ! Password set
1122 0
1123 0 Node CPU type codes
1124 0
1125 0 literal NMASC_CPU_8 = 0;             ! PDP-8 processor
1126 0 literal NMASC_CPU_11 = 1;           ! PDP-11 processor
1127 0 literal NMASC_CPU_1020 = 2;         ! Decsystem 10/20 processor
1128 0 literal NMASC_CPU_VAX = 3;          ! Vax processor
1129 0
1130 0 Service node version coded values
1131 0
1132 0 literal NMASC_NODSNV_PH3 = 0;         ! Phase III
1133 0 literal NMASC_NODSNV_PH4 = 1;         ! Phase IV
1134 0
1135 0 Node software type code
1136 0
1137 0 literal NMASC_SOFT_SECL = 0;          ! Secondary loader
1138 0 literal NMASC_SOFT_TERL = 1;          ! Tertiary loader
1139 0 literal NMASC_SOFT_OSYS = 2;         ! Operating system
1140 0 literal NMASC_SOFT_DIAG = 3;         ! Diagnostics
1141 0
1142 0 Node access (and default access) codes
1143 0
1144 0 literal NMASC_ACES_NONE = 0;          ! None
1145 0 literal NMASC_ACES_INCO = 1;         ! Incoming
1146 0 literal NMASC_ACES_OUTG = 2;         ! Outgoing
```



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```
1147 0 literal NMASC_ACES_BOTH = 3;          ! Both
1148 00 literal NMASC_ACES_REQU = 4;        ! Required
1149 00
1150 00 X.25 Protocol type values
1151 00
1152 00 literal NMASC_XPRTY_BIL = 1;        ! Bilateral
1153 00
1154 00 X.25 protocol state values
1155 00
1156 00 literal NMASC_XPRST_ON = 0;          ! On
1157 00 literal NMASC_XPRST_OFF = 1;        ! Off
1158 00 literal NMASC_XPRST_SHU = 2;        ! Shut
1159 00
1160 00 X.25 protocol multi-network support flag
1161 00
1162 00 literal NMASC_XPRMN_ENA = 0;        ! Enabled
1163 00 literal NMASC_XPRMN_DIS = 1;        ! Disabled
1164 00
1165 00 X.25 protocol DTE substate values
1166 00
1167 00 literal NMASC_XPRSB_RUN = 12;        ! Running
1168 00 literal NMASC_XPRSB_UN = 13;        ! Unsynchronized
1169 00 literal NMASC_XPRSB_SYN = 10;        ! Synchronizing
1170 00
1171 00 Months of the Year Codes
1172 00
1173 00 literal NMASC_JAN = 1;
1174 00 literal NMASC_FEB = 2;
1175 00 literal NMASC_MAR = 3;
1176 00 literal NMASC_APR = 4;
1177 00 literal NMASC_MAY = 5;
1178 00 literal NMASC_JUN = 6;
1179 00 literal NMASC_JUL = 7;
1180 00 literal NMASC_AUG = 8;
1181 00 literal NMASC_SEP = 9;
1182 00 literal NMASC_OCT = 10;
1183 00 literal NMASC_NOV = 11;
1184 00 literal NMASC_DEC = 12;
1185 00
1186 00 Service device codes (MOP)
1187 00
1188 00 literal NMASC_SOFD_DP = 0;          ! DP11
1189 00 literal NMASC_SOFD_UNA = 1;        ! UNA
1190 00 literal NMASC_SOFD_DU = 2;         ! DU11
1191 00 literal NMASC_SOFD_DL = 4;         ! DL11
1192 00 literal NMASC_SOFD_DQ = 6;         ! DQ11
1193 00 literal NMASC_SOFD_DA = 8;         ! DA11
1194 00 literal NMASC_SOFD_DUP = 10;        ! DUP11
1195 00 literal NMASC_SOFD_DMC = 12;        ! DMC11
1196 00 literal NMASC_SOFD_DMP = 18;        ! DMP11
1197 00 literal NMASC_SOFD_DTE = 20;        ! DTE20
1198 00 literal NMASC_SOFD_KL8 = 32;        ! KL8
1199 00 literal NMASC_SOFD_DMV = 34;        ! DMV
1200 00 literal NMASC_SOFD_DPV = 36;        ! DPV
1201 00 literal NMASC_SOFD_DMF = 38;        ! DMF32
1202 00
1203 00 Status codes for field support routines
```

```

1204 0
1205 00 literal NMAS_SUCCESS = 1;      ! Unqualified success
1206 00 literal NMAS_SUCCFLDRPL = 9; ! Success with field replaced
1207 00 literal NMAS_BADFID = 0;    ! Invalid field id code
1208 00 literal NMAS_BADDAT = 8;    ! Invalid data format
1209 00 literal NMAS_BADOPR = 16;   ! Invalid operation
1210 00 literal NMAS_BUFTOOSMALL = 24; ! Buffer too small
1211 00 literal NMAS_FLDNOTFND = 32; ! Field not found
1212 00
1213 0000 Permanent database file ID codes
1214 0000
1215 0000 literal NMASC_OPN_MIN = 0; ! Minimum !
1216 0000 literal NMASC_OPN_NODE = 0; ! Nodes
1217 0000 literal NMASC_OPN_LINE = 1; ! Lines
1218 0000 literal NMASC_OPN_LOG = 2; ! Logging
1219 0000 literal NMASC_OPN_OBJ = 3; ! Object
1220 0000 literal NMASC_OPN_CIR = 4; ! Circuit
1221 0000 literal NMASC_OPN_X25 = 5; ! Module X25
1222 0000 literal NMASC_OPN_X29 = 6; ! Module X29
1223 0000 literal NMASC_OPN_CNF = 7; ! Module Configurator
1224 0000 literal NMASC_OPN_MAX = 7; ! Maximum ! permanent database files
1225 0000 literal NMASC_OPN_ALL = 127; ! All opened files
1226 0000
1227 0000 Open access codes
1228 0000
1229 0000 literal NMASC_OPN_AC_RO = 0; ! Read Only
1230 0000 literal NMASC_OPN_AC_RW = 1; ! Read write
1231 0000
1232 0000 Define Phase II NICE function codes
1233 0000
1234 0000 literal NMASC_FN2_DLL = 2; ! Down line load
1235 0000 literal NMASC_FN2_ULD = 3; ! Upline Dump
1236 0000 literal NMASC_FN2_TRI = 4; ! Trigger remote bootstrap
1237 0000 literal NMASC_FN2_LOO = 5; ! Loop back test
1238 0000 literal NMASC_FN2_TES = 6; ! Send test message to be looped
1239 0000 literal NMASC_FN2_SET = 7; ! Set parameter
1240 0000 literal NMASC_FN2_REA = 8; ! Read Parameter
1241 0000 literal NMASC_FN2_ZER = 9; ! Zero counters
1242 0000 literal NMASC_FN2_LNS = 14; ! Line service
1243 0000
1244 0000 Change parameters (volatile only)
1245 0000
1246 0000 literal NMASC_OP2_CHNST = 5; ! Node operational status
1247 0000 literal NMASC_OP2_CHLST = 8; ! Line operational status
1248 0000
1249 0000 Read Information (Status and Counters only)
1250 0000
1251 0000 literal NMASC_OP2_RENCT = 0; ! Local node counters
1252 0000 literal NMASC_OP2_RENST = 1; ! local node status
1253 0000 literal NMASC_OP2_RELCT = 4; ! Line counters
1254 0000 literal NMASC_OP2_RELST = 5; ! Line status
1255 0000
1256 0000 Zero counters
1257 0000
1258 0000 literal NMASC_OP2_ZENCT = 0; ! Local Node counters
1259 0000 literal NMASC_OP2_ZELCT = 2; ! Line counters
1260 0

```

```

1261 0      Line entity codes
1262 0
1263 0      literal NMASC_EN2_KNO = 0;      ! Known lines
1264 0      literal NMASC_EN2_LID = 1;      ! Line id
1265 0      literal NMASC_EN2_LCN = 2;      ! Line convenience name
1266 0
1267 0      NML Return codes
1268 0
1269 0      literal NMASC_STS_SUC = 1;      ! Success
1270 0      literal NMASC_STS_MOR = 2;      ! Request accepted, more to come
1271 0      literal NMASC_STS_PAR = 3;      ! Partial reply
1272 0
1273 0      literal NMASC_STS_DON = -128;    ! Done
1274 0
1275 0      literal NMASC_STS_FUN = -1;      ! Unrecognized function or option
1276 0      literal NMASC_STS_INV = -2;      ! Invalid message format
1277 0      literal NMASC_STS_PRI = -3;      ! Privilege violation
1278 0      literal NMASC_STS_SIZ = -4;      ! Oversized management command message
1279 0      literal NMASC_STS_MPR = -5;      ! Network management program error
1280 0      literal NMASC_STS_PTY = -6;      ! Unrecognized parameter type
1281 0      literal NMASC_STS_MVE = -7;      ! Incompatible management version
1282 0      literal NMASC_STS_CMP = -8;      ! Unrecognised component
1283 0      literal NMASC_STS_IDE = -9;      ! Invalid identification format
1284 0      literal NMASC_STS_LCO = -10;     ! Line communication error
1285 0      literal NMASC_STS_STA = -11;     ! Component in wrong state
1286 0      literal NMASC_STS_FOP = -13;     ! File open error
1287 0      literal NMASC_STS_FCO = -14;     ! Invalid file contents
1288 0      literal NMASC_STS_RES = -15;     ! Resource error
1289 0      literal NMASC_STS_PVA = -16;     ! Invalid parameter value
1290 0      literal NMASC_STS_LPR = -17;     ! Line protocol error
1291 0      literal NMASC_STS_FIO = -18;     ! File i/o error
1292 0      literal NMASC_STS_MLD = -19;     ! Mirror link disconnected
1293 0      literal NMASC_STS_ROO = -20;     ! No room for new entry
1294 0      literal NMASC_STS_MCF = -21;     ! Mirror connect failed
1295 0      literal NMASC_STS_PNA = -22;     ! Parameter not applicable
1296 0      literal NMASC_STS_PLO = -23;     ! Parameter value too long
1297 0      literal NMASC_STS_HAR = -24;     ! Hardware failure
1298 0      literal NMASC_STS_OPE = -25;     ! Operation failure
1299 0      literal NMASC_STS_SYS = -26;     ! System-specific management
1300 0      ! function not supported
1301 0      literal NMASC_STS_PGP = -27;     ! Invalid parameter grouping
1302 0      literal NMASC_STS_BLR = -28;     ! Bad loopback response
1303 0      literal NMASC_STS_PMS = -29;     ! Parameter missing
1304 0
1305 0      literal NMASC_STS_ALI = -127;     ! Invalid alias identification
1306 0      literal NMASC_STS_OBJ = -126;     ! Invalid object identification
1307 0      literal NMASC_STS_PRO = -125;     ! Invalid process identification
1308 0      literal NMASC_STS_LNK = -124;     ! Invalid link identification
1309 0
1310 0      Error details
1311 0
1312 0      STS_FOP and STS_FIO
1313 0
1314 0
1315 0      literal NMASC_FOPDTL_PDB = 0;    ! Permanent database
1316 0      literal NMASC_FOPDTL_LFL = 1;    ! Load file
1317 0      literal NMASC_FOPDTL_DFL = 2;    ! Dump file

```



```

1318 0 literal NMASC_FOPDTL_SLF = 3;
1319 0 literal NMASC_FOPDTL_TLF = 4;
1320 0 literal NMASC_FOPDTL_SDF = 5;
1321 0
1322 0 STS_MLD, STS_MCF
1323 0
1324 0 literal NMASC_NCEDTL_NNA = 0;
1325 0 literal NMASC_NCEDTL_INN = 1;
1326 0 literal NMASC_NCEDTL_UNA = 2;
1327 0 literal NMASC_NCEDTL_UNR = 3;
1328 0 literal NMASC_NCEDTL_RSC = 4;
1329 0 literal NMASC_NCEDTL_RJC = 5;
1330 0 literal NMASC_NCEDTL_ONA = 6;
1331 0 literal NMASC_NCEDTL_OBJ = 7;
1332 0 literal NMASC_NCEDTL_ACC = 8;
1333 0 literal NMASC_NCEDTL_BSY = 9;
1334 0 literal NMASC_NCEDTL_NRS = 10;
1335 0 literal NMASC_NCEDTL_NSD = 11;
1336 0 literal NMASC_NCEDTL_DIE = 12;
1337 0 literal NMASC_NCEDTL_DIS = 13;
1338 0 literal NMASC_NCEDTL_ABO = 14;
1339 0 literal NMASC_NCEDTL_ABM = 15;
1340 0
1341 0 STS_OPE
1342 0
1343 0 literal NMASC_OPEDTL_DCH = 0;
1344 0 literal NMASC_OPEDTL_TIM = 1;
1345 0 literal NMASC_OPEDTL_ORN = 2;
1346 0 literal NMASC_OPEDTL_ACT = 3;
1347 0 literal NMASC_OPEDTL_BAF = 4;
1348 0 literal NMASC_OPEDTL_RUN = 5;
1349 0 literal NMASC_OPEDTL_DSC = 6;
1350 0 literal NMASC_OPEDTL_FTL = 8;
1351 0 literal NMASC_OPEDTL_MNT = 11;
1352 0 literal NMASC_OPEDTL_LST = 12;
1353 0 literal NMASC_OPEDTL_THR = 13;
1354 0 literal NMASC_OPEDTL_TRB = 14;
1355 0 literal NMASC_OPEDTL_STA = 15;
1356 0 literal NMASS_NMADEF7 = 1;
1357 0 macro NMA$V_CTLIN_TUN = 0,2,1,0 %;
1358 0 macro NMA$V_CTLIN_RUN = 0,4,1,0 %;
1359 0 macro NMA$V_CTLIN_FMR = 0,5,1,0 %;
1360 0
1361 0 VMS-specific line counters
1362 0

```

```

! Secondary loader
! Tertiary loader
! Secondary dumper

! No node name set
! Invalid node name format
! Unrecognised node name
! Node unreachable
! Network resources
! Rejected by object
! Invalid object name format
! Unrecognised object
! Access control rejected
! Object too busy
! No response from object
! Node shut down
! Node or object failed
! Disconnect by object
! Abort by object
! Abort by management

! Data check
! Timeout
! Data overrun
! Unit is active
! Buffer allocation failure
! Protocol running
! Line disconnected
! Fatal hardware error
! DDCMP maintainance message received
! Data lost due to buffer size mismatch
! Threshold error
! Tributary malfunction
! DDCMP start message received

! transmit underrun
! receive underrun
! FRMR received

```

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```
1363 0 |
1364 0 | Version: 'V04-000'
1365 0 |
1366 0 | ++
1367 0 | NMATAIL.B32
1368 0 |
1369 0 | Source to undeclare the macros required for the precompile of
1370 0 | NMALIBRY.B32 so they do not appear in the library.
1371 0 | --
1372 0 |
1373 0 |
1374 0 | UNDECLARE %QUOTE $EQU%ST,
1375 0 | %QUOTE GET1ST_,
1376 0 | %QUOTE GET2ND_,
1377 0 | %QUOTE NUL2ND_,
1378 0 | ;
1379 0 |
1380 0 |
1381 0 | End of NMATAIL.B32
1382 0 |
```

COMMAND QUALIFIERS

BLISS/LIB=LIB\$:NMALIBRY/LIS=LIS\$:NMALIBRY SRC\$:NMAHEAD+LIB\$:NMADEF+SRC\$:NMATAIL

: Run Time: 00:13.1  
: Elapsed Time: 00:21.7  
: Lines/CPU Min: 6324  
: Lexemes/CPU-Min: 26508  
: Memory Used: 147 pages  
: Library Precompilation Complete



0272 AH-BT13A-SE  
VAX/VMS V4.0

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